

Program Listing for La Verne

Diversion Program Name

*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
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Source Reduction

Xeriscaping/Grasscycling	Yes	Yes	X	X
Backyard and On-Site Composting/Mulching	No	Yes	X	X
Business Waste Reduction Program	Yes	Yes	X	X
Procurement	Yes	Yes	X	X
Government Source Reduction Programs	No	Yes	X	X
Material Exchange, Thrift Shops	Yes	Yes	X	X

Recycling

Residential Curbside	Yes	Yes	X	X
Residential Drop-Off	Yes	Yes	X	X
Residential Buy-Back	Yes	Yes	X	X
Commercial On-Site Pickup	Yes	Yes	X	X
Government Recycling Programs	Yes	Yes	X	X
Special Collection Seasonal (regular)	Yes	Yes	X	X

Composting

Residential Curbside Greenwaste Collection	No	Yes	X	X
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Special Waste Materials

Tires	Yes	Yes	X	X
White Goods	Yes	Yes	X	X
Scrap Metal	Yes	Yes	X	X
Wood Waste	Yes	Yes	X	X
Concrete/Asphalt/Rubble	Yes	Yes	X	X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Program Listing for La Verne

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Diversion Program Name	*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
Public Education				
Electronic (radio ,TV, web, hotlines)	No	Yes	X	X
Print (brochures, flyers, guides, news articles)	Yes	Yes	X	X
Outreach (tech assistance, presentations, awards, fairs, field trips)	No	Yes	X	X
Schools (education and curriculum)	No	Yes	X	X
Policy Incentives				
Product and Landfill Bans	No	Yes		
Economic Incentives	No	Yes	X	X
Ordinances	No	Yes	X	X
Facility Recovery				
Alternative Daily Cover	Yes	Yes	X	X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Jurisdictional SRRE Program Summary Household Hazardous Waste (HHW)

Selected Year(s): 1997, 1998

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Jurisdiction	Year	HH- PMF	HH- MPC	HH- CSC	HH- WSE	HH- EDP	HH- OTH
La Verne	1997	X	X	X	X	X	
	1998						

Legend: HH-PMF Permanent Facility
HH-MPC Mobile or Periodic Collection
HH-CSC Curbside Collection
HH-WSE Waste Exchange
HH-EDP Educational Programs
HH-OTH Other HHW



To request a correction to or substitution for a previously approved base-year amount used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 255-2555 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance, MS 8
8800 Cal Center Drive
Sacramento CA 95826

General Instructions:

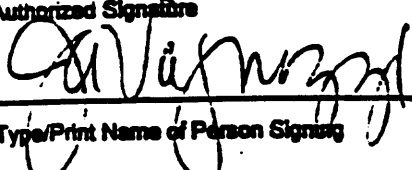
Please select the ONE choice below that best explains your request to the Board, and complete the appropriate section. All respondents must complete Section I and either Section II A or II B, as noted.

- ☐ 1. Correct our existing Board-approved base-year generation (disposal or diversion) tonnage. (Please complete Section I and Section II A.)
- ☐ 2. Use a recent generation-based study to substitute for our existing Board-approved base-year generation amount, but not officially change our existing Board-approved base year. (Please complete Section I and Section II B.)
- ☒ 3. Use a recent generation-based study to officially change our Board-approved existing base year to a new year. (Please complete Section I and Section II B.)

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge and that I am authorized to make this certification on behalf of:

Jurisdiction Name La Verne		County Los Angeles	
Authorized Signature 		Title Management Analyst	
Type/Print Name of Person Signing Jeannette Vagnozzi	Date March 13, 2000	Phone (909) 598-8741	
Person Completing This Form (please print or type) Eugene Tseng	Title Principal Investigator UCLA Extension	Phone (818) 889-8628	
Mailing Address City of La Verne, 3860 D Street	City La Verne	State CA	ZIP Code 91750

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Attach additional sheets if necessary—the first page must complete this section.

B1. Current Board-approved base-year:

1990

B2. Proposed new generation-based study year:

2000

B3. Is the proposed generation study year representative of average annual jurisdiction disposal and diversion patterns? ☒ Yes ☐

B4. Please select the ONE choice below that best explains your diversion data.

- ☐ All diversion tonnage claimed is from a 100 percent audit (full enumeration) of all available diversion programs.
☒ Some diversion data were estimated or extrapolated from representative sampling. (Explain amount and method in detail below.)

Extrapolating Diversion Tons from Audits of Businesses to Commercial/Industrial Accounts (not including self-haul)
This method is consistent with Title 14, California Code of Regulations, Article 6.1 Solid Waste Generation Study, Section 18722 et seq.

Calculation Details Sheet

Section B Commercial and Industrial Sector Summary

Existing Commercial / Industrial Recycling and Source Reduction

= 22,224.04

[This comes from Commercial Generation (43,153.48) minus Commercial Disposal by Hauler (20,929.44)]

[Commercial Generation comes from Commercial Disposal divided by 1- Commercial Diversion Rate from Audits (20,929.44 / 100% - 51.5% = 43,153.48)]

22,224.04 - diversion identified by audits 8,296.83 = 13,927.22 (diversion tonnage not identified by audits, since not all of the city's businesses were audited)

The audits showed that 11.4% of the diversion came from source reduction practices and 40.1% came from recycling. (These are "rates" that now can be extrapolated to the businesses not audited because the rates came from a "statistically representative" sample).

Extrapolated source reduction = 11.4% (source reduction rate of audited businesses) + 51.5 % (diversion rate for audited businesses)
= 22.1%

221 x 13,927.22 (unaccounted for commercial diversion tonnage) = 3,077.92 tons

Extrapolated recycling = 100% - 22.1% = 77.9 %
.779 x 13,927.22 = 10,849.30 tons

When the extrapolated diversion is added to the diversion identified by the audits, we now have the total commercial / industrial tonnage diverted by source reduction and recycling based upon the rate identified during the audits.

La Verne Roll-Up:

106 audits out of a total possible of 157 businesses = 67.5 % of businesses were included in survey

2,803 employees were included in survey sample of a total 3,193 possible = 87.8 % of employees were included in survey

The new base year generation study was required by the CIWMB Compliance Order.

Waste reduction and recycling audits were conducted in a statistically random (stratified large/small) way and the results extrapolated only to the hauler serviced routes. The self haul business were not included. The audit program is an ongoing program and the City of La Verne has completed approximately 100 on-site technical assistance audits. There are only 157 commercial and industrial accounts in the City according to the Franchised Hauler (exclusive)

A summary of the study is included.

The Department of Conservation, Division of Recycling data are also included.

B5. In the table below, list the diversion data records that support your claim and are available for review.
Include type of record and location for each.

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Diversion Program	Tons	Type of Record	Location of Data
Residential Recycling	1507.07	Facility Weigh Tickets	Hauler (WM)
AB 20/20	79.34	DOC reports	Department of Conservation
Actual Business reported diversion (surveys)	8296.83	Business surveys/audits	UCLA Extension
Extrapolated recycling diversion	10,849.30	Calculated from audits	UCLA Extension
Extrapolated source reduction	3,077.92	Calculated from audits	UCLA Extension
Christmas trees (County)	38.37	Facility Weigh Tickets	LA County/City of La Verne
City Recycling/Public Works	2,155.62	Facility Weigh Tickets	City of La Verne
Alternative Daily Cover (ADC)	267.97	Weigh Tickets by Landfill	LA County DRS
Diverted Landfill Salvage	38,532.02	Weigh Tickets by Landfill	LA County DRS

B6. Please select the ONE choice below that best explains your disposal data and complete the required tables.

- ☐ a. All tons claimed are from the Board's Disposal Reporting System (1995 and after). (No explanation required. Skip to B9.)
- ☐ b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage (pre-1995). (Please complete B7 and then skip to B9.)
- ☐ c. Some Disposal Reporting System data were corrected. (Please skip to B8.)

B7. If you chose "b" in B6, list the disposal data records that support your claim and are available for Board audit in the table below. Include type of record and location; for example, weigh tickets from transfer station.

Source of Disposal	Tons	Type of Record	Location of Data

B8. If you chose "c" in B6, list the disposal data records that support your claim and are available for Board audit in the table below. Explain tonnage amount, correction method used, and correct owner of disputed tonnage in detail.

B9. Enter your diversion rates in the table below.

	1995	1996	Other Year: (please specify) 1998
Current calculated diversion rate:	a. %	b. %	
Proposed diversion rate:	c. %	d. %	e. 49.4

B10. If the proposed base-year generation tonnage correction results in an increase in either your 1995 or 1996 waste diversion rate, please explain how the diversion rate is consistent with your diversion implementation efforts.

The CIWMB calculated diversion rate using the Adjustment Method is not representative of the City's diversion rate. The Adjustment Method gives a negative diversion rate (-86%). The City has implemented a number of programs. In the original base year SRRE/SWGS, the recycling and waste reduction diversion implemented by the businesses were not quantified. In addition, the self haul was not adequately accounted for. The City has worked with its franchised hauler (Waste Management/USA Waste) over two years to gather the data to complete the new base year generation study as part of a business technical assistance effort.

The City of La Verne and Waste Management/USA Waste has worked closely with UCLA Extension to pilot many of the waste reduction and recycling audit protocols and statistical methods.

The City's largest franchise hauler has made a long term commitment to continuing the on-site business waste reduction and recycling technical assistance program. The data and diversion measurement accuracy will only improve.

B11. If the difference between the proposed diversion rates in B9c and B9d or B9d and B9e is greater than 5 percentage points, please explain the reasons for the difference in the rates. (For example: program implementation or data errors.)

The primary reason is for data errors from the base year combined with Disposal Reporting year errors. The original SWGS and SRRE did not track the self haul and they did not quantify commercial/industrial diversion that existed in the City in 1990.



**City of La Verne
New Base Year
Generation Study**

June 2000

Y903 1A7

City of La Verne 1998 New Base Year Generation Study and Annual Report

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Base Year Modification Request Certification

New Base Year Generation Study

Summary

Calculation Details

*Hauler Accounts Only (No Self Haul) Estimate of Commercial and Industrial Sector Recycling Only
Applied to Hauler Accounts (No Self Haul)*

Jurisdiction Disposal by Facility / 1999 Diversion Rate Measurement Calculation (DRMC) Sheet

Waste Reduction and Recycling Audit Summary

City of La Verne Waste Reduction and Recycling Audit Report

Hauler Data

Diverted / Salvaged by LA County Landfills

LA County Disposal Reporting System

Christmas Tree Recycling

City of La Verne Diversion Programs

PARIS



Base Year Modification Request Certification



New Base Year Generation Study

Summary

Calculation Details

***Hauler Accounts Only (No Self Haul) Estimate of Commercial and
Industrial Sector Recycling Only Applied to Hauler Accounts (No Self Haul)***



New Generation Study Summary 1998-1999

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City of La Verne	
New Generation Study 1998	
Calculation Details	
	1998 Tons
A	Residential Sector Summary
	Residential Disposal (Franchise Hauler Data) 16,812.85
	Residential Recycling (Franchise Hauler Data) 1,560.07
	AB 2020 Recycling (Department of Conservation) 79.34
	Christmas Tree Recycling Program (deducted from Residential Recycling) 38.37
	Residential Generation Tonnage 18,490.63
	Residential Diversion Tonnage 1,677.78
	Residential Diversion Rate 9.1%
B	Commercial and Industrial Sector Summary
	Commercial and Industrial Disposal (see attached sheet) 49,553.39
	City Programs (e.g., Public Works road resurfacing, etc.) 2,155.62
	Existing Commercial / Industrial Recycling and Source Reduction 22,224.04
	Commercial and Industrial Generation Tonnage 73,933.05
	Commercial and Industrial Diversion Tonnage 24,379.66
	Commercial and Industrial Diversion Rate 33.0%
C	Diversion Reported by County Disposal Reporting System
	Alternative Daily Cover Tonnage (DRS) 267.97
	Salvaged/Recycled Tonnage (self haul, hauler clean C & D rollofs, etc.) 38,532.02
	County Landfill ADC / Recycled Diversion Tonnage 38,799.99
D	Allocation of County DRS Reported Diversion to City Sectors
	Residential Sector Diversion Allocation (%) 25.3%
	Commercial and Industrial Sector Diversion Allocation (%) 74.7%
	Residential Sector Diversion Allocation Tonnage 9,829.37
	Commercial and Industrial Sector Diversion Allocation Tonnage 28,970.62
E	Overall 1998 Jurisdiction Summary
	1998 Disposal Tonnage 66,366.24
	1998 Diversion Tonnage 64,857.43
	1998 Generation Tonnage 131,223.67
	1998 Diversion Rate 49.4%



City of La Verne		
1998 New Generation Study		
Estimate of Commercial and Industrial Sector Recycling		
Only Applied to Hauler Accounts (NO SELF HAUL)		
Calculation Detail		
	Description	Tonnage
A	Jurisdiction Total Disposal (1998 Disposal Reporting System Tonnage)	66,366.24
	Disaster Related Disposal (see attachments for documentation)	0.00
	Corrected Disposal Tonnage for 1998	66,366.24
B	Residential Disposal Tonnage, Exclusive Franchise Hauler	16,812.85
C	Commercial and Industrial Disposal by Franchise Hauler	20,929.44
D	Commercial and Industrial Disposal Tonnage (Self Haul)	28,623.95
E	Diversion Rate from AUDITS OF HAULER ACCOUNTS	51.5%
	(Diversion Study attached)	
F	Commercial and Industrial Generation Tonnage (HAULER ACCOUNTS)	43,153.48
	(C/(100% - E))	
G	Commercial and Industrial Diversion Tonnage (HAULER ACCOUNTS)	22,224.04
	(F - C)	
Calculation Summary Without ADC and Landfill Salvage Allocation		
H	Commercial and Industrial Disposal Tonnage	49,553.39
I	Commercial and Industrial Diversion Tonnage (without self haul diversion)	22,224.04
J	Commercial and Industrial Generation Tonnage	71,777.43



Waste Reduction and Recycling Audit Summary



"Statistically Representative" Sampling Coverage

Waste Management of San Gabriel / Pomona Valley is the exclusive franchise hauler in the City of La Verne. The City of La Verne is ~~primarily~~ a ~~suburban~~ community with limited businesses. The single largest "business" is the University of La Verne. Waste Management has 157 commercial / industrial business accounts.

The waste reduction and recycling audit program covered 101 businesses. This is almost 66% of the businesses and included the University.

City of La Verne			Total	Additional	Total	Add. Poten.	Disposal
1999 Waste Reduction and Recycling Audit Analysis			Exist. Recy.	Poten. Recy.	Exist.S. Red.	S. Reduction	tons/yr
Number	Name of Company	Type of Business	Diversion (lb/yr)	(lb/yr)	Diversion (lb/yr)	(lb/yr)	(calculated)
1		Misc Retail	0.00	10,400.00	0.00	1,628.40	20.80
2		Retail Carpet	0.00	92,834.60	30.00	2,040.10	26.00
3		Flight training/aircraft rental	0.00	4,484.00	10,666.00	0.00	15.60
4		Repair/sell printers/carts	84.00	533.40	2,284.72	0.00	1.73
5		University Food Svc	22,132.00	14,014.00	2,678.00	2,184.00	60.84
6		Computer Monitor Assembly	57,600.00	14,789.12	629.74	17,368.00	15.60
7		Equipment Rental/Leasing	0.00	8,584.16	4.75	130.00	124.80
8		Bakery/Deli	0.00	8,824.16	1,936.32	0.00	54.60
9		Ice Cream Shop	0.00	0.00	0.00	0.00	20.80
10		Fabricated Metal Products	145.60	27,248.00	25,911.60	52.00	11.70
11		Fabricated Metal Products	416.00	33.10	3,900.00	260.00	5.20
12		Chemical Mfg	5,200.00	334.60	9,613.06	1,248.00	7.80
13		Misc. Retail	456,040.00	3,721.10	1,450.80	24.05	78.00
14		Video Rental	0.00	9,420.00	0.00	0.00	10.40
15		Termite control	0.00	151.00	0.00	99.60	21.06
16		Home for disabled adults	98.80	1,031.22	0.00	4,320.00	5.85
17		Leasing	0.00	24,600.00	0.00	0.00	9.60
18		Special Trade Contractor	208,364.00	16,183.44	0.00	301.20	19.50
19		Restaurant	0.00	46,750.16	3,310.06	74.00	3.03
20		Landscaping	664.00	75,816.00	487,822.00	0.00	31.20
21		Church/School	344.76	1,760.00	22.80	49.92	41.80
22		Agricultural Plastic Mfg	2,080.00	23,540.00	2,084,553.00	0.00	312.00
23		Retail Garden Furniture	1,800.00	90.00	4,812.00	0.00	20.80
25		Chamber of Commerce	447.44	660.60	104.07	570.00	10.40
24		Military Research	4.42	1,058.80	2,471.40	0.00	2.31
26		Spring Mfg	7,274.90	0.00	1,301.80	2,080.00	1.30
27		Restaurant	72,120.00	0.00	3,600.00	0.00	249.60
28		Church/School	812.00	0.00	204.24	0.00	15.60
29		Veterinarian	60.00	60.00	60.00	2,278.64	10.40
30		Retail Clothing	0.00	1,825.00	1,046.70	26.00	15.60
31		Plumbing Valve Mfg	2,797.04	695.04	11,980.00	0.00	87.36
32		Machining	14,766.96	95.04	6,008.00	2,080.00	5.20
33		Plant Nursery	2,000.00	846.00	500.00	536.00	19.50
34		Plastic Mfg.	1,645.60	90.00	3,192.00	1,048.00	7.80
35		High School	67,664.76	80.08	272,024.48	8,216.00	163.80
36		Stone Contractor	60,000.00	0.00	1,187.78	78.00	52.00
37		Mfg. Hydraulic Valves	432.00	312.00	5,730.00	26,257.40	7.80
38		Electrical for Airplanes	416.00	15,612.00	3,866.10	9,669.96	15.60
39		Tool Manufacturing	416.00	15,612.00	1,870.23	0.00	31.20
40		Fabric Importer	361.60	422.00	1,461.04	8.00	3.90
41		Fire Suppression Camp	0.00	291.20	40,000.00	520.00	26.00
42		Pottery Products	214,046.00	884,104.40	0.00	24.00	624.00
43		Medical Supplies	9,024.00	3,003.00	2,252.96	24.00	20.80
44		Aircraft Maintenance/Sales	0.00	904.00	0.00	27.24	10.40
45		Plumbing	9,745.00	76.50	1,114.00	0.00	1.46
46		Fabric Store	40.32	96,304.00	0.00	0.00	20.80
47		Restaurant	13,520.00	2,002.00	1,099.00	0.00	46.80
48		Car Wash	312.00	15,600.00	195.00	12,120.00	93.60
49		County Library	3,677.00	2,105.18	13,812.84	1,300.00	7.80
50		Roller Rink	28,174.20	439.20	7,755.40	53,172.00	15.60
51		City Hall/Public Wrks	5,081.88	257.40	4,931.76	0.00	23.40
52		Parks & Recreation/Maintenance	6,500.00	45.60	440.40	0.00	58.50
53		Boys Home/School	77,100.00	9,715.16	13,522.80	36.00	31.20
54		Air conditioning installer	56,452.80	840.00	0.00	36.00	15.60
55		Restaurant	4,179.45	4,878.32	613.60	274.20	10.40
56		Plastic Injection Molding	19,200.00	9,262.00	3,250.00	6,263.76	52.00
57		Department Store	497,580.80	96,385.48	0.00	2,864.40	39.00
58		HVAC Installation	24.00	1,400.00	0.01	150.00	7.80
59		Water District/Govt. Agency	165,508.88	42,068.00	71,200.00	0.00	249.60
60		Retail Clothing	15,600.00	224.00	0.00	0.00	8.32
61		Bakery	0.00	416.00	0.00	104.00	4.16
62		Shipping	600.00	0.00	150.00	401.18	6.76
63		Computer Systems	0.00	3,037.50	193,348.00	808.00	234.00
64		Engineering	116.80	1,041.80	333.80	0.00	5.46
65		Plastic Mfg	22,374.40	52.01	0.00	1,430.00	10.40
66		Restaurant	111,936.00	8,809.40	783.40	10.00	10.40
67		Office Supplies	101,503.00	96,000.00	168.00	0.00	13.00
68		Chair Mfg.	139,736.00	741,520.00	1,536.00	0.00	117.00
69		Plastic Pipe/Fittings Distr.	346.32	37,680.00	32,996.00	1,586.00	15.60
70		Injection mold mfg.	2,200.00	0.00	7,112.00	1,560.00	1.30
71		Paper Mfg.	1,040,000.00	0.00	0.00	0.00	3,380.00
72		Automotive Retail	41,631.20	117.00	32,772.00	0.00	23.40
73		Auto Sales	48,432.00	72.00	6,500.00	500.00	51.80
74		Misc. Retail	573,867.32	40.00	1,600.00	25.00	20.80

75	Print Shop	8,744.06	2,600.00	1,501.54	0.00	15.60
76	Marine Products	802,624.00	24.00	11,034.28	0.00	7.28
77	Drug Store	0.00	30,287.60	22,850.00	0.00	46.80
78	Bindery	639,336.00	1,180.00	0.00	100.00	15.60
79	Drug Store	737,943.12	3.00	4,160.00	1,052.00	15.60
80	Food Equipmt Distr.	4,104.88	96.77	312.00	0.00	16.38
81	Senior Apartments	2.70	8,140.00	0.01	0.00	62.40
81	Golf Course Restaurant	14,596.00	1,248.00	2,135.00	156.00	36.40
82	Golf Course Maint.	6,340.00	90.00	135,907.00	484.02	19.50
83	Retail Floor Covering	2,200,640.00	4,235.40	0.78	0.00	78.00
84	Computer Hardware	2,080.00	3,051.60	48,605.88	0.00	3.47
85	Metal Plate Mfg.	324,706.00	0.00	2,096.36	0.00	187.20
86	Misc. Retail	375,873.28	7,485.44	4,800.00	24.00	192.00
87	Metal Furniture Mfg.	24,000.00	3,078.00	7,200.00	0.00	1.95
88	Restaurant	41,600.00	2,640.00	0.00	40.00	6.24
89	Grocery Store	3,578,640.00	0.00	10,005.64	2.60	39.00
90	Church	166.40	8,231.60	1,300.00	0.00	7.80
91	Bookstore	38,729.60	26,810.00	1,230.00	5,108.00	10.40
92	Purchasing	61,572.00	20,400.00	40.00	195.00	10.95
93	Admissions	1,864.40	1,560.00	958.00	3.96	10.95
94	Library	1,368.40	290.00	10,319.80	0.00	10.95
95	Maintenance	140,868.00	225,664.80	500.00	48.00	27.73
96	Machine Shop	2,496.00	0.00	2,128.00	1,148.00	7.80
97	Electronics	3,473.60	588.00	21,248.20	14,150.00	7.80
98	Wholesale Grower	150.00	0.00	0.00	960.00	26.00
99	Retail Music	0.00	3,364.80	0.00	0.00	1.73
100	Printing Machines	27,695.50	78,050.00	0.00	96.00	57.20
101	Manufacturing	16,018.00	21,928.40	490.00	260.00	10.40
		6,625.16	1,466.12	1,841.27	94.85	7,808.17
	Annual Tons Reported by Audited La Verne Businesses	16,274.61				
	Restricted Materials to be Deleted from Diversion	169.61		3.76		
	AB 939 Annual Diversion Tons Reported by La Verne Businesses	16,105.00		1,837.51		
	Annual Tons Disposed	7,808.17	48.5%			
	Annual Tons Diverted by Source Reduction	1,837.51	11.4%			
	Annual Tons Diverted by Recycling	6,459.31	40.1%			
	Total Annual Tons Generated	16,105.00	100.0%			
	Total AB 939 Annual Tons Diverted	8,296.83				
	Estimated Diversion Rate for Audited Businesses	51.5%				

The following audit sheets were requested by Malinda Hall. Main reason for high diversion rates provided.

Audit #	Explanation
#13	520 bales of OCC @ 850 lb. each, 5,200 pallets/yr @ 40 lb. ea., reusable crates @ 1,372 lb/yr.
#18	5200 pallets/yr
#20	Grasscycling tonnage re-calculated. Original report used incorrect formula. Should be 444,880 lb./yr.; greenwaste diverted for composting 45 tpy.
#22	5,200 pallets/yr diverted
#42	5,200 pallets/yr diverted
#53	Site has 18 buildings. 2,600 lb/yr OCC recycled, 74,500 lb/yr grease, donations 7,800, grasscycling 5,662.8 lb/yr
#63	4,800 pallets/yr
#71	Original audit included paper feedstock in diversion. This has been excluded in current report. Other high diversion is poly bales at 1,040,000 lb/yr per E. Tseng. Pallets diverted at 32,000/yr (1,280,000 lb/yr)
#76	OCC 802,560 lb/yr, pallets 4,100 lb/yr, paper source reduction 1,040 lb/yr
#83	Pallets 6,240 lb/yr, recycled ^{ing} carpet padding 2,194,400 lb/yr

**City of La Verne
Waste Reduction and Recycling Audit Report
March 2000**

Introduction

Waste reduction and recycling audits were conducted in the commercial and industrial sector of the City of La Verne. These audits were conducted to achieve the following:

- 1) collect data for a new generation study
- 2) provide on-site waste reduction and recycling technical assistance to businesses in the City of La Verne
- 3) quantify and evaluate current diversion programs implemented by businesses
- 4) identify exemplary programs for CIWMB WRAP Program (year 2000)
- 5) quantify and assist businesses in implementation of additional waste reduction and recycling programs
- 6) develop an ongoing infrastructure to support a commercial / industrial sector technical assistance program

Additionally, these audits were conducted to evaluate potential diversion programs that can be implemented by the City of La Verne and/or Waste Management (the franchise hauler).

Six auditors, Edward Aguirre, Albert Hernandez, Grace Lee, Gilberto Ramirez, Tess da Silva, and Rosalind Risser Yasui, conducted the waste reduction and recycling audits under the direction of Dr. Eugene Tseng. Ms. Rosalind Yasui served as the project manager. The commercial and industrial sector sampling plan and technical methodology were implemented in August 1999 and the audits were conducted from January to March 2000.

Out of a total of 157 commercial and industrial accounts, 101 business sites were audited. The auditors offered recommendations for reducing waste to the businesses, as well as printed literature regarding waste reduction and recycling practices specific to their needs. The literature was provided by the California Integrated Waste Management Board (CIWMB), California Environmental Protection Agency.

The audit methodology utilizes the "80/20" rule, which states that 80 % of the wastestream is created by 20 % of the largest businesses. The City provided a business license database that included the number of employees at the businesses. This database was utilized to determine the largest businesses within the City, so that they would be the first priority for auditing. Business owners and managers were contacted individually for an audit appointment and the audits were executed in person.

The survey methodology utilized in the study was based on CIWMB and US EPA forms. The quantification methodology for estimating source reduction diversion quantities is based upon a US EPA document titled "Business Waste Prevention Quantification Methodologies, Business Users' Guide and Technical Appendices."

Summary of Results

The table below shows the existing diversion quantified from the waste reduction and recycling audit program conducted in the City of La Verne.

City of La Verne Summary of Waste Reduction and Recycling Audits		
	Year 2000 Annual Tons	Percent of Total Generation
Annual Disposal	7,808.17	47.8 %
Annual Source Reduction Diversion	1,837.51	11.2 %
Annual Recycling Diversion	6,794.56	41.3 %
Total Diversion (Audited Businesses Only)	8,632.08	52.5 %
Annual Generation (Audited Businesses Only)	16,440.25	100 %

The 52.5 % diversion rate is based upon the CIWMB formula of Diversion as a proportion of Total Generation. It does not include diversion of AB 2494 "restricted" materials and hazardous wastes (e.g., oil, etc.). Generation is comprised of Disposal plus Diversion. This diversion rate does not include any businesses that self-haul.

For the businesses audited, the waste reduction and recycling auditors assessed additional recycling and source reduction that could reasonably be implemented, such as returning toner cartridges to be refilled or using both sides of a sheet of paper before recycling it. The audit data indicate that an additional 1,466.12 tons of materials could be diverted from the waste stream by recycling. Findings also indicate that another 94.85 tons of materials could be diverted by the implementation of source reduction activities.

Recycling makes up 41.3 % of the commercial and industrial diversion. Source reduction accounts for 11.2 % of the diversion, for a total diversion rate of 52.5 %.

The auditors found that out of 101 businesses, 10 have franchise hauler (Waste Management) recycling bins. (Seven businesses have cardboard recycling bins, 1 has a glass recycling bin, and 1 has a greenwaste bin.) The University of La Verne has 2 cardboard and 2 white paper recycling bins. Four of the audited businesses bale their cardboard.

Conclusion

The City of La Verne has several recycling programs that are not documented in their Source Reduction and Recycling Element. One program is an informal agreement with a local paper product manufacturer to utilize about 2,000 pounds of paper waste a year from City Hall. Another program in which the City participates, is an annual recycling seminar, that is taught entirely by high school students. The City provides bus transportation for high school science students to go to elementary schools and teach the younger students about environmental issues.

There are a number of mobile home parks in La Verne which have initiated their own recycling programs. When they were contacted, however, the property managers declined to participate in this waste and recycling study, so no data were collected.

Most La Verne businesses dispose of cardboard in their trash bin. Cardboard scavenging is fairly uncommon and not encouraged. Telephone book recycling is available to all businesses if they set out the books the morning of the residential pick up (Monday), but few businesses take advantage of this.

La Verne is home to the University of La Verne, a 32-acre campus with 1,200 undergraduate students. Because of their excellent waste reduction programs, the University is being studied further. The case study analysis will be conducted over the next three to four months by the project team mentioned above.

In order to track the demolition material generated by the 210 freeway expansion project, Cal Trans was contacted a number of times during the first week of February. The contract manager, Bill Kent (213/897-1916), said that he was unfamiliar with the City's policy of requiring contractors in charge of construction and demolition (C & D) sites to have bins for on-site separation of recyclable materials. When asked to estimate the generation and diversion tonnage of freeway-related C & D materials, Mr. Kent stated that they landfill 100% of the material. Rosalind Yasui conveyed this information to Maria Tipping, engineer and consultant for the City of Claremont and City of La Verne freeway expansion project.

Of the 101 audited businesses, 18 were found to be potential WRAP Award recipients. These businesses requested assistance from the auditors with submitting an application, due to the technical nature of the application. The WRAP application deadline is the end of June, therefore assistance should be provided to these businesses during May and June 2000.

Over twenty businesses requested follow-up assistance from the auditors in order to increase diversion of a variety of materials. This type of assistance should be provided on an on-going basis to businesses within the City of La Verne.

The technical assistance program is being offered to every business in the City. Waste Management has offered a waste reduction and recycling technical assistance audit to any company that requests the service. In addition, an ongoing, permanent technical assistance program is being developed in conjunction with other neighboring cities for the commercial / industrial sector in the region. Waste Management is also working with Dr. Tseng in developing a regional waste reduction and recycling resource guide to be available on the Internet.

As part of the waste reduction and recycling program, companies in the City of La Verne that have exemplary practices were asked to participate as a "peer match model" and be documented as a case study for their specific industry. The documentation will be made available as a resource on the Internet.

Program Implementation Updates and Recommendations

- 1) The City and the hauler have negotiated a new contract which will include:
 - a. a variable can rate (pay as you throw system)
 - b. expansion of the existing residential recycling program to allow for fully automated service for trash, recycling and greenwaste
 - c. expansion of single stream automated recycling using 96 gallon receptacles. These changes should yield an increase in the amount of recyclable material collected.
- 2) The City / hauler / UCLA are coordinating a waste reduction and recycling workshop for local businesses. Those businesses that have been identified as leaders in their recycling and waste reduction endeavors will be invited to discuss their programs. Additional information will be provided to teach businesses how to reduce their waste hauling costs and the consumption of natural resources.
- 3) The City should provide a Recycling Resource Guide for businesses that gives references to local recycling facilities and tips for reducing the waste stream. This Guide should be periodically updated and made available to the community in order to facilitate reuse, source reduction, and recycling.
- 4) The City will identify local business waste reduction and recycling programs that should be acknowledged by the City for their outstanding effort. Assistance shall be provided to potential candidates for the CIWMB's Waste Reduction Award Program (WRAP) for the year 2000.